

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James S. Norris et al. Art Unit: 1635

Serial No.: 10/082,973 Examiner: Janet L. Epps-Ford

Filed: February 26, 2002

Title : TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

## MAIL STOP AF

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# TERMINAL DISCLAIMER UNDER 37 C.F.R. §§ 3.73(b) AND 1.321(b)

Pursuant to 37 C.F.R. § 3.73(b), THE PENN STATE RESEARCH FOUNDATION and MUSC FOUNDATION FOR RESEARCH DEVELOPMENT, certify that each is a co-assignee of the entire right, title, and interest in the above-referenced application by virtue of assignments from the inventors of the patent application referenced above. The assignments were recorded in the Patent and Trademark Office at Reel 010553, Frame 0168 on January 19, 2000, Reel 010553, Frame 0152 on January 19, 2000, and Reel 013364, Frame 0198 on October 8, 2002.

The Penn State Research Foundation and MUSC Foundation For Research Development also certify that each is a co-assignee of U.S. Patent No. 6,271,359. A copy of these assignments are attached for your reference.

The undersigned has reviewed all the documents in the chain of title of the abovereferenced application and to the best of undersigned's knowledge and belief, title is in The Penn State Research Foundation and MUSC Foundation For Research Development.

The undersigned is empowered to act on behalf of the co-assignees.

Pursuant to 37 C.F.R. § 1.321(b), and to obviate an obviousness-type double patenting rejection, the co-assignees identified above hereby waive and disclaim the terminal portion of the term of the entire patent to be granted upon the above-referenced application subsequent to the

11/18/2004 GWDRDOF1 00000058 10082973

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

November 15, 2004

Date of Deposit

Signature

Judy Wasilkus

uky Wasilkus

Typed or Printed Name of Person Signing Certificate

Attorney's Docket No.: 14017-004002 / PSU 96-1566

Applicant: James S. Norris et al.

Serial No.: 10/082,973

Filed: February 26, 2002

Page : 2 of 2

expiration date of U.S. Patent No. 6,271,359, whereby the patent granted on this above-referenced application and U.S. Patent No. 6,271,359 will expire on the same day, provided that any patent granted on the above-referenced application shall be enforceable only for and during such period that it is commonly owned with U.S. Patent No. 6,271,359.

The co-assignees identified above do not disclaim any terminal part of any patent granted on the above-referenced application prior to the expiration date of the full statutory term of U.S. Patent No. 6,271,359 in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 C.F.R. § 1.321(a), has all claims cancelled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title as stated above. The co-assignees herein do not disclaim or otherwise affect any part of U.S. Patent No. 6,271,359.

This disclaimer runs with any patent granted on the above-referenced application and is binding upon the grantee, its successors or assigns.

Please charge any additional fees, or make any credits, to Deposit Account No. 06-1050, referencing Attorney Docket No. 14017-004002.

Respectfully submitted,

Date: November 15, 2004

J. Patrick Finn III, Ph.D.

Reg. No. 44,109

Fish & Richardson P.C., P.A. 60 South Sixth Street Suite 3300

Minneapolis, MN 55402 Telephone: (612) 335-5070 Facsimile: (612) 288-9696

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JKF TXF

14017. 004002

Chief Information Officer Washington, DC 20231 www.uspto.gov

J.NUARY 16, 2003

**PTAS** 

FISH & RICHARDSON P.C. JANIS K. FRASER 225 FRANKLIN STREET BOSTON, MA 02110-2804



00000

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/08/2002

REEL/FRAME: 013364/0198

NUMBER OF PAGES: 2

DOC DATE: 07/12/2002

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MEDICAL UNIVERSITY OF SOUTH

CAROLINA

ASSIGNEE:

MUSC FOUNDATION FOR RESEARCH
DEVELOPMENT

261 CALHOUN STREET, SUITE 305 CHARLESTON, SOUTH CAROLINA 29425

SERIAL NUMBER: 10082973

PATENT NUMBER:

FILING DATE: 02/26/2002

ISSUE DATE:

JEFFREY OLSEN, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

RECEIVED

No Docketing Required

Reviewed By Practice Systems

Initials:

FC

Reviewed By Billing Secretary

Initials:

JAN 2 1 2003

FISH & RICHARDSON, P.C. BOSTON OFFICE

'Substitute Form PTO-1595 Attorney Docket No.: 14017-004002 Client's Ref. No.: PSU 96-1566



R SHEET

Commissioner for Patents: Please record the attached original docu			
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):		
Medical University of South Carolina	MUSC Foundation for Research Development 261 Calhoun Street, Suite 305		
Additional name(s) attached? ☐ Yes 図 No	Charleston, SC 29425		
3. Nature of conveyance:	Chaneston, 30 23723		
☑ Assignment	33 -8 -8 Bio		
☐ Merger ☐ Security Agreement	SIS III		
☐ Change of Name			
☐ Other:			
Execution Date: 07/12/2002	Charleston, SC 29425  Charleston, SC 29425  ANCE SECTION NOR NOR NOR NOR NOR NOR NOR NOR NOR N		
4. Application number(s) or patent number(s):	<del>- 0</del> 3		
If this document is being filed with a new application, the execut	tion date of the application is:		
A. Patent Application No(s).:	B: Patent No(s).:		
10/082,973			
	sattached? ☐ Yes 图 No		
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1		
Janis K. Fraser, PH.D., J.D.	7. Total fee (37 CFR §3.41): \$40		
Fish & Richardson P.C.	☑ Enclosed		
225 Franklin Street	☐ Authorized to charge Deposit Account.		
Boston, MA 02110-2804	8. Deposit Account No.: 06-1050		
	Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.		
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	nd belief, the foregoing information is true and correct and		
any attached copy is a true copy of the original docum	ent.		
	•		
J. Patrick Finn III, Ph.D.			
Reg. No. 44,109	October 7,200		
Name of Person Signing	Date		
1			
7	otal number of pages including coversheet, attachments and document:		

00000178 10082973 10/10/2002 TDIAZ1 40.00 DP 01 FC:581

CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No.

Date of Deposit:

## UNIT RSITY TO FOUNDATION ASSIGNMENT

WHEREAS, Medical University of South Carolina, having a place of business at 171 Ashley Avenue, Charleston, SC 29425-2230, (hereinafter termed "Assignor"), owns the entire right, title, and interest in the inventions described below (hereinafter "Said Inventions,")

# TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

for which a United States Patent Application Serial No.: 10/082,973, was filed on February 26, 2002, and

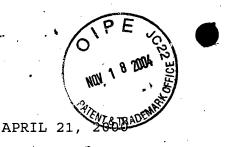
WHEREAS, MUSC Foundation for Research Development, having a place of business at <a href="Model 261 Calhoun St., Suite 305">261 Calhoun St., Suite 305</a>, Charleston, SC 29425, (hereinafter termed "Assignee"), is desirous of acquiring the Assignor's right, title and interest in and to Said Inventions, and in and to any and all patent applications, patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignor to have been received from said Assignee, including the obligations of Assignee to Assignor contained in the Agreement between the Assignor and Assignee dated November 15, 2001:

- 1. Said Assignor does hereby, subject to the rights of the United States Government, if any, pursuant to 35 U.S.C. § 200 et seq., sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to Said Inventions; (b) in and to all rights to apply for foreign patents on Said Inventions pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on Said Inventions in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.
- Assignee, to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by the Assignor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by the parties (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering Said Inventions; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving Said Inventions; and (f) for legal proceedings involving Said Inventions and any applications therefore and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon the Assignor, its successors, assigns and other legal representatives.
- 4. Said Assignor hereby warrants and represents that the Assignor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.
- 5. In the event that the Agreement between the parties dated November 15, 2001 is terminated, Assignee shall, pursuant to the Agreement, transfer in full the rights conveyed in this Assignment back to Assignor or Assignor's designee, subject to any rights of third parties, including license rights, prior sales or other dispositions existing at the time of termination of the Agreement.

IN WITNESS WHEREOF, said Assignor has executed and delivered this instrument to said Assignee this day of \_\_\_\_\_\_\_, 2002.

MUSC FOUNDATION FOR RESEARCH	MEDICAL UNIVERSITY OF SOUTH CAROLINA			
By:	By: Joh R Reymond			
Title: Executive Director	Title: In them Provos T			





# UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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ATTEN OF



PENNIE & EDMONDS LLP LAURA A. CORUZZI 1155 AVENUE OF THE AMERICAS NEW YORK, NY 10036

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/19/2000

REEL/FRAME: 010553/0168

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CLAWSON, GARY A.

DOC DATE: 01/03/2000

ASSIGNOR:

PAN, WEI-HUA

DOC DATE: 01/03/2000

ASSIGNEE:

PENN STATE RESEARCH FOUNDATION, THE

304 OLD MAIN STREET

UNIVERSITY PARK, PENNSYLVANIA 16802

SERIAL NUMBER: 09338942

PATENT NUMBER: 09338942

FILING DATE: 06/24/1999

ISSUE DATE:

010553/0168 PAGE 2

MAYA BENNETT, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

02-22-2000

# Express Mail No. EL 265 832 312 US

ET

Attorney Docket Number

1012/20	9175-010			
Box Ass	ER OF PATENTS AND TRADEMARKS signment I, DC 20231			
Please record the attached original documents or copy thereof.				
1. Name of conveying party (ies):	2. Name and address of receiving party(ies):			
GARY A. CLAWSON and WEI-HUA PAN  Additional name(s) of conveying party(ies) attached? □ Yes ⋈ No	Name: THE PENN STATE RESEARCH FOUNDATION			
3. Nature of conveyance:	Address: 304 Old Main Street			
■ Assignment     □ Merger	University Park, Pennsylvania 16802			
□ Security Agreement □ Change of Name	Country (if other than USA):			
□ Other				
Execution Date: January 3, 2000				
4. Application number(s) or patent number(s):				
If this document is being filed together with a new application, the execution	n date of the application is:			
A. Patent Application No.(s) <u>09/338,942</u>	B. Patent No.(s)			
Additional numbers att	ached? □ Yes ⊠ No			
Name and address of party to whom correspondence concerning document should be mailed:	Number of applications     and patents involved: One			
PENNIE & EDMONDS LLP 1155 Avenue of the Americas New York, NY 10036	7. Total fee (37 CFR 3.41):\$ 40.00  Please charge to the deposit account listed in Section 8.			
	8. Deposit account number: 16-1150			
DO NOT USE	THIS SPACE			
9. Statement and signature.				
is a true copy of the original document.	information is true and correct and any attached copy by Jacqueline Benn Loruzzi RegNo 43,492 January 19, 2000			
Laura A. Coruzzi  Name of Person Signing Reg. No.  30,742  Signature	Date 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	number of pages including cover sheet: 3			

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignment

Washington, D.C. 20231

### ASSIGNMENT

WHEREAS, WE, GARY A. CLAWSON and WEI-HUA PAN, ASSIGNORS, citizens of the United States and China, respectively, residing at 5709 Rockmere Drive, Bethesda, Maryland 20816; and 907 Butler Court, Hummelstown, Pennsylvania 17036, respectively, are co-inventors with, JAMES S. NORRIS, MICHAEL G. SCHMIDT, BRIAN HOEL, JOSEPH W. DOLAN, DAVID SCHOFIELD, CAROLINE WESTWATER, and CANCAN HUANG, citizens of the United States, the United States, the United States, the United Kingdom, the United Kingdom, and China, respectively, residing at 1010 Casseque Province, Mt. Pleasant, South Carolina 29464; 1257 Wynnwood Court, Mt. Pleasant, South Carolina 29464; 36 S. Battery, Charleston, South Carolina 29401; 1821 Falling Circle, Mt. Pleasant, South Carolina 29464; 803K Runaway Bay Drive, Mt. Pleasant, South Carolina 29464; and 1515 Ashley River Road, F49, Charleston, South Carolina 29407, respectively, of the invention in TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES for which we have executed an application for a Patent of the United States

which is identified by Pennie & Edmonds LLP docket no. 9175-010 which was filed on June 24, 1999, as Application No. 09/338,942

the instrument.

and WHEREAS, The Penn State Research Foundation, a corporation existing under the laws of Pennsylvania, having a business address at 304 Old Main Street, University Park, Pennsylvania 16802, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that I have full right to convey our entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMON , <del>1999</del> x 2000.	Y WHIREOF, We here	unto set our hands and seals this	3rd day of January	
		Hay A. GARY A. C	LAWSON	L.S.
State of Pennsylvani	a ) ) SS.:			
County of Dauphin	)			
On this 3 rdd personally appeared GAI whose name is subscribe	d to the within instrume	2000  XXX before me, a Notary Public in sonally known to me on the basis out and acknowledged to me that I nt the person, or the entity upon belong.	ne executed the same in his a	aumorized

Susie M Liffred Notary Public.

NOTARIAL SEAL SUSIE M. GIFFORD, Notary Public Hershey, Dauphin County My Commission Expires May 12, 2003 EI-HUA PAN

State of Pennsylvania

SS.:

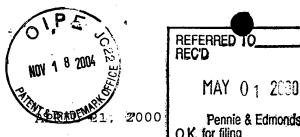
County of Dauphin

On this 3 fd day of January 1288 before me, a Notary Public in and for the State and County aforesaid, personally appeared WEI-HUA PAN, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument

Notary Public.

NOTARIAL SEAL SUSIE M. GIFFORD, Notary Public Hershey, Dauphin County My Commission Expires May 12, 200

Jean, Plaubhin Cour



Pennie & Edmonds

O.K. for filing

PENNIE & EDMONDS LAURA A. CORUZZI 1155 AVENUE OF THE AMERICAS NEW YORK, NY 10036

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

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RECORDATION DATE: 01/19/2000

REEL/FRAME: 010553/0152

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

NORRIS, JAMES S.

DOC DATE: 01/14/2000

ASSIGNOR:

SCHMIDT, MICHAEL G.

DOC DATE: 01/14/2000

ASSIGNOR:

HOEL, BRIAN

DOC DATE: 01/14/2000

ASSIGNOR:

DOLAN, JOSEPH W.

DOC DATE: 01/14/2000

ASSIGNOR:

SCHOFIELD, DAVID

DOC DATE: 01/14/2000

ASSIGNOR:

WESTWATER, CAROLINE

DOC DATE: 01/14/2000

ASSIGNOR:

HUANG, CANCAN

DOC DATE: 01/14/2000

010553/0152 PAGE 2

ASSIGNEE:

MEDICAL UNIVERSITY OF SOUTH CAROLINA 171 ASHLEY AVENUE CHARLESTON, SOUTH CAROLINA 29425

SERIAL NUMBER: 09338942

PATENT NUMBER:

FILING DATE: 06/24/1999

ISSUE DATE:

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



02-22-2000



**Express Mail No. <u>EL 265 832 312 US</u>** 

**IEET** 

2. Name and address of receiving party(ies):

**CAROLINA** 

Country (if other than USA): \_\_\_

Address: 171 Ashley Avenue

Name: MEDICAL UNIVERSITY OF SOUTH

Charleston, South Carolina 29425

Attorney Docket Number 9175-010

NON 1 8 2004

101272015

HE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS Box Assignment Washington, DC 20231

Please record the attached original documents or copy thereof.

JAMES S. NORRIS, MICHAEL G. SCHMIDT, BRIAN HOEL, JOSEPH W. DOLAN, DAVID

SCHOFIELD, CAROLINE WESTWATER, and CANCAN HUANG

Additional name(s) of conveying party(ies) attached? □ Yes ⋈ No

3. Nature of conveyance:

Name of conveying part of

□ Merger

□ Security Agreement

□ Change of Name

□ Other

Execution Date: January 14, 2000

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) <u>09/338,942</u>

B. Patent No.(s)

Additional numbers attached? □ Yes ☑ No

Name and address of party to whom correspondence concerning document should be mailed:

PENNIE & EDMONDS LLP 1155 Avenue of the Americas New York, NY 10036

- 6. Number of applications and patents involved: one
- 7. Total fee (37 CFR 3.41):....\$ 40.00 Please charge to the deposit account listed in Section 8.
- 8. Deposit account number: 16-1150

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Jacqueline Benn

Laura A. Coruzzi

30,742

09338942

January 19, 2000

Name of Person Signing Reg. No.

Signature

Date

Total number of pages including cover sheet:

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02/18/2000 TTON11

00000219 161150

01 FC:581

40.00 CH

## ASSIGNMENT

WHEREAS, WE, JAMES S. NORRIS, MICHAEL G. SCHMIDT, BRIAN HOEL, JOSEPH W. DOLAN, DAVID SCHOFIELD, CAROLINE WESTWATER, and CANCAN HUANG, ASSIGNORS, citizens of the United States, the United States, the United Kingdom, the United Kingdom, and China, respectively, residing at 1010 Casseque Province, Mt. Pleasant, South Carolina 29464; 1257 Wynnwood Court, Mt. Pleasant, South Carolina 29464; 36 S. Battery, Charleston, South Carolina 29401; 1821 Falling Circle, Mt. Pleasant, South Carolina 29464;803K Runaway Bay Drive, Mt. Pleasant, South Carolina 29464; 803K Runaway Bay Drive, Mt. Pleasant, South Carolina 29464; 803K Runaway Bay Drive, Mt. Pleasant, South Carolina 29464; and 1515 Ashley River Road, F49, Charleston, South Carolina 29407, respectively, are co-inventors with GARY A. CLAWSON and WEI-HUA PAN, citizens of the United States and China, respectively, residing at 5709 Rockmere Drive, Bethesda, Maryland 20816; and 907 Butler Court, Hummelstown, Pennsylvania 17036, respectively, of the invention in TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES for which we have executed an application for a Patent of the United States

which is identified by Pennie & Edmonds LLP docket no. 9175-010 which was filed on June 24, 1999, as Application No. 09/338,942

and WHEREAS, Medical University of South Carolina, an agency of the State of South Carolina, having a business address at 171 Ashley Avenue, Charleston, South Carolina 29425, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey our entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date 1/14/2000, 1999

State of SC

County of Charleston

SS.:

L.S

On this 14 day of Jacky, 1999 before me, a Notary Public in and for the State and County aftersaid, personally appeared JAMES S. NORRIS, personally known to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Me: April 10,200

Notary Public.

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Date 14 January		Michela	1. m	MICHAEL	G. SCHMIDT	L.S.
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Date 14 January	_, 19 <del>99</del>	Caroline Was	AROLINE WEST	WATER	£.5.
State of SC County of Charles L.	} ss.:	•	·		
On this 4 day of Japersonally appeared CAROLINE person whose name is subscribed authorized capacity, and that by her executed the instrument.	WESPWAIER, I	ersonally known to	deduced to me that	she executed the	he same in her
Date	2000) _2999	. (	ANCAN HUANG		L.S.
State of 5 C	)			٠	
County of Charlester	SS.:				
On this 14 day of 24 personally appeared CANCAN HU name is subscribed to the within insthat by his signature on the instrument	ANG personally		asis of satisfactory (	evidence to be the ein his authorize	ed capacity, and